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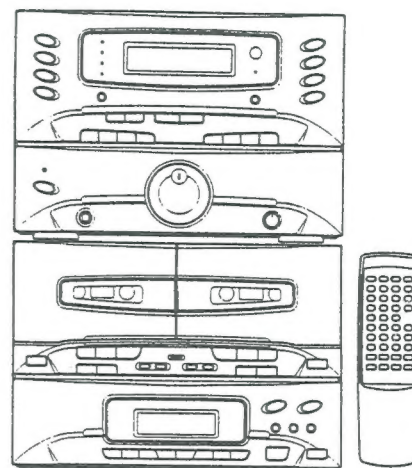
Reference 2000

**AM/FM STEREO RECEIVER
CASSETTE PLAYER/RECORDER
3-DISC COMPACT DISC CHANGER**

SPECIFICATIONS

Power Source
Power Consumption
Output Power

230V/50Hz
700 Watts
120W x2 (at 0.9% THD)



Tuner Section

Frequency Range
Intermediate Frequency
Sensitivity
Multiplex Separation

AM: 531-1620 kHz FM: 87.5-108 MHz
AM: 450 kHz FM: 12.7 MHz
AM: 900 uV/M (at 1MHz) FM: 10 uV (at 98MHz)
30 dB

Cassette Section

Tape Speed
Frequency Response
Wow & Flutter

1-7/8 IPS (4.75 P.S.)
63 Hz - 12.5 kHz
0.2% WRMS

Amplifier Section

Total Harmonic Distortion (1 kHz)
Signal To Noise Ratio
Output Power (at 0.9% THD)

0.1%
70 dB
120W x 2

Compact Disc Player Section

Channel Separation (1 kHz)
Total Harmonic Distortion
Signal To Noise Ratio

50 dB
0.1%
65 dB

Dimensions

W= 279mm (11") H=394mm (15-1/2")
D= 311mm (12-1/4")

Weight

14.3 kgs (31.46 lbs)

SERVICE PUBLICATION

Note All the specifications and features are subject to change without notice

CD Adjustments

The following steps should be performed before attempting adjustments in the CD section.

1. Remove the turntable by sliding the Guide Plate outward. (See Fig. 9)
2. Disassemble the Base Cover by removing 2 screws. (See Fig. 9)

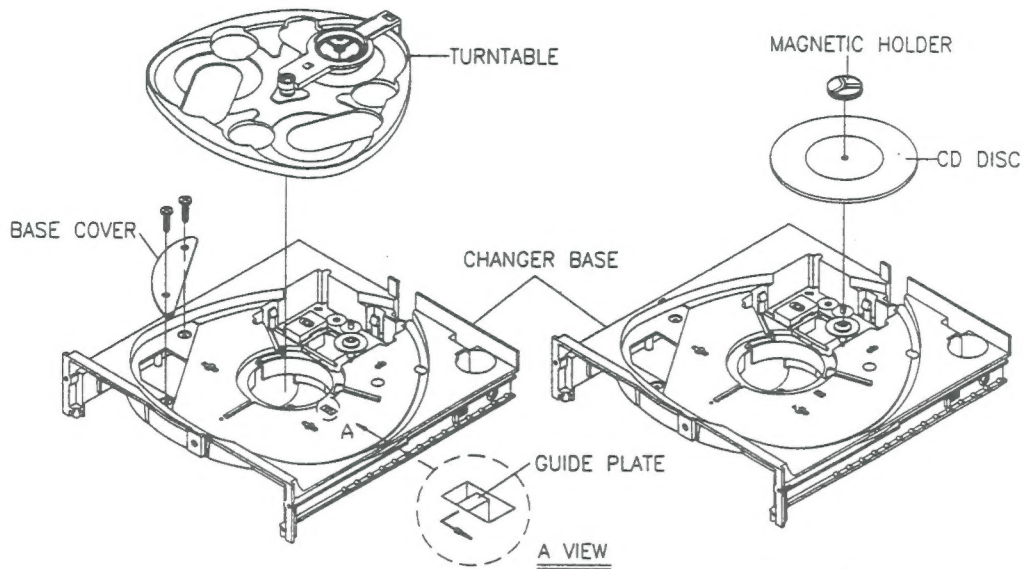


Figure 9

CAUTION:

The laser beam may always be active when the turntable is removed.
Use of controls for adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
The compact disc player should not be adjusted or repaired by anyone except properly qualified service personnel.

RF ADJUSTMENT

1. Connect CN08 to the power supply, and CD player in stop mode.
2. Connect the DC meter to CN10-.
3. Adjust VR01, for a reading of $0V \pm 20mV$. (See Fig. 10)

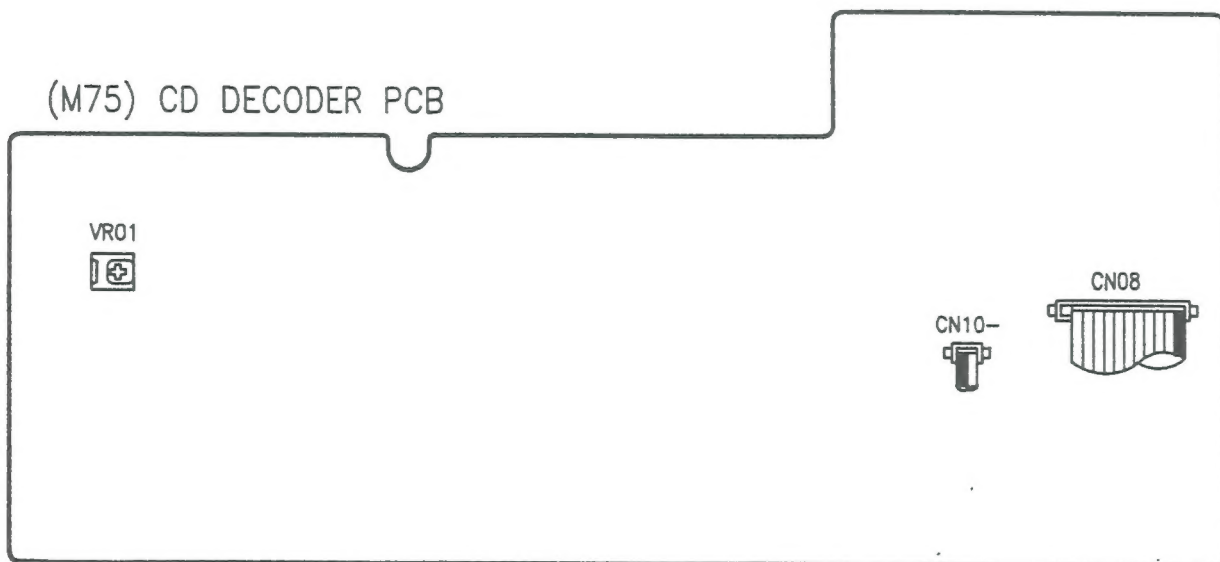
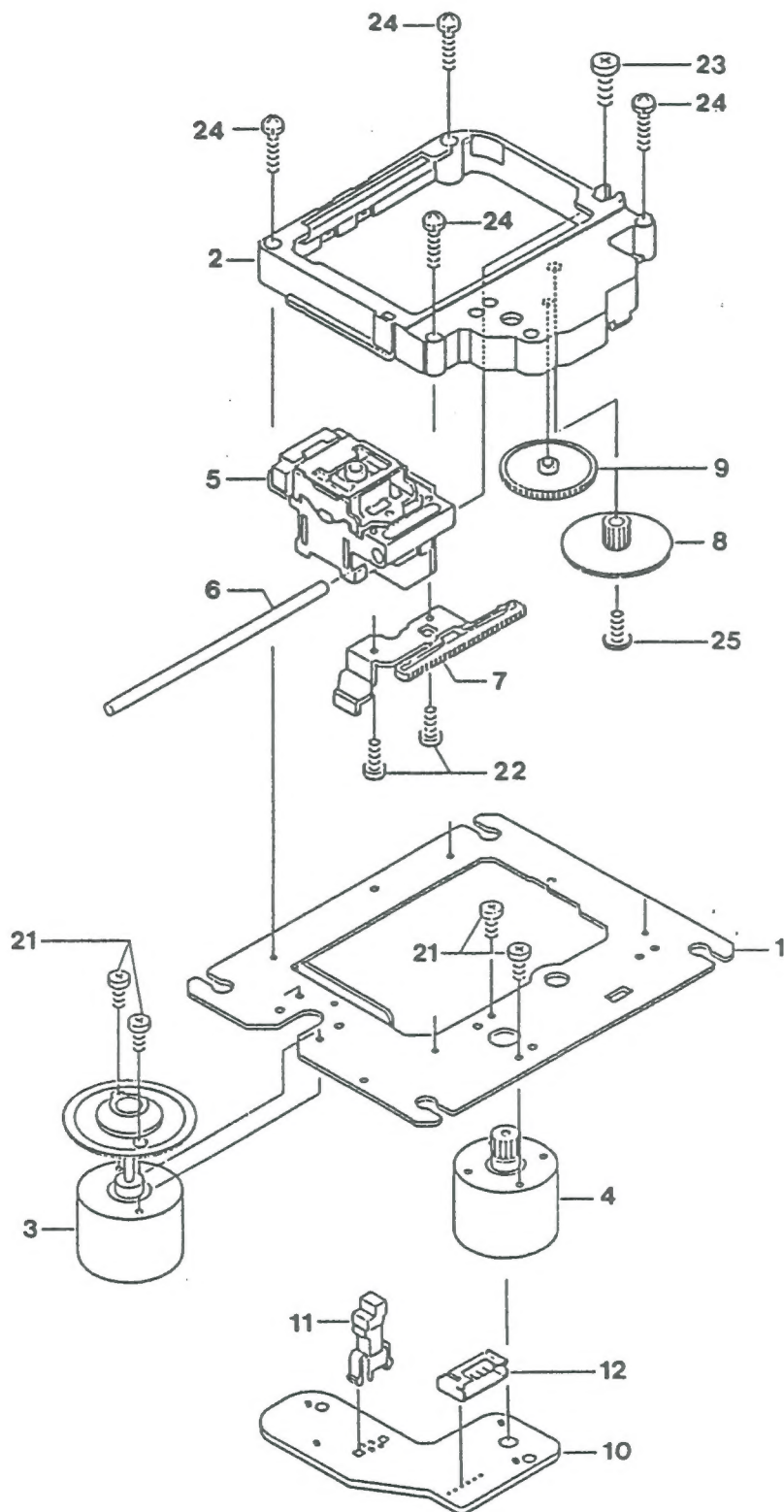


Figure 10

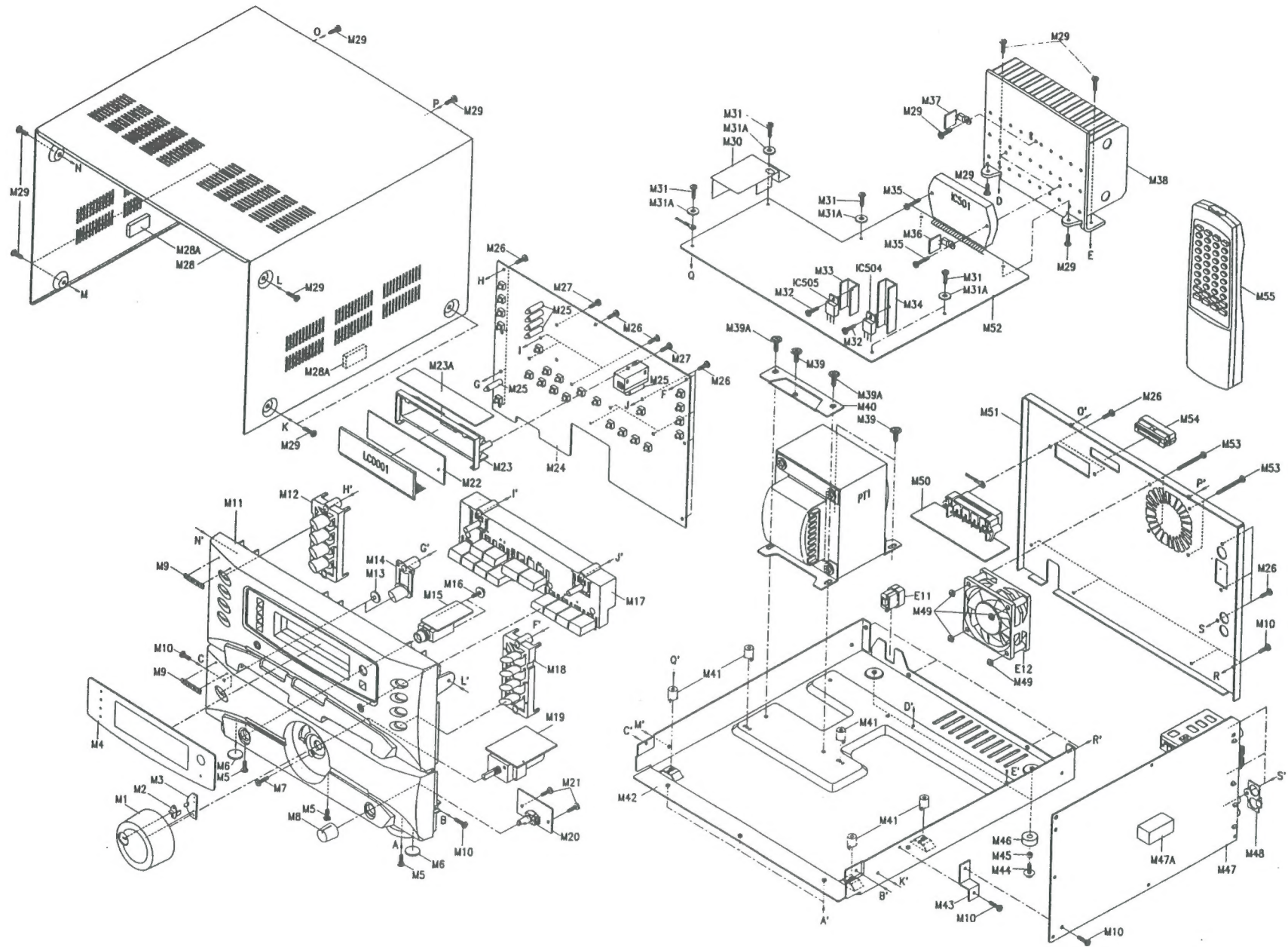
This diagram is an exploded view of a mechanical assembly, likely a camera or a similar device. It shows the following components and their assembly sequence:

- Top Assembly:** Includes parts M111, M110, M109, M108, M107, M106, M105, and M104.
- Central Housing:** The main body of the device, featuring a large circular opening. It includes parts M103, M102, M101, M100, M99, M98, M97, M96, M95, M94, M93, M92, M91, M90, M89, M88, M87, M86, M85, M84, M83, M82, M81, M80, M79, M78, M77, M76, M75, M74, M73, M72, M71, M70, M69, M68, M67, M66, M65, M64, M63, M62, M61, M60, M59, M58, M57, M56, M55, M54, M53, M52, M51, M50, M49, M48, M47, M46, M45, M44, M43, M42, M41, M40, M39, M38, M37, M36, M35, M34, M33, M32, M31, M30, M29, M28, M27, M26, M25, M24, M23, M22, M21, M20, M19, M18, M17, M16, M15, M14, M13, M12, M11, M10, M9, M8, M7, M6, M5, M4, M3, M2, M1.
- Bottom Assembly:** Includes parts M11, M10, M9, M8, M7, M6, M5, M4, M3, M2, M1.
- Internal Components:** Includes parts M100, M99, M98, M97, M96, M95, M94, M93, M92, M91, M90, M89, M88, M87, M86, M85, M84, M83, M82, M81, M80, M79, M78, M77, M76, M75, M74, M73, M72, M71, M70, M69, M68, M67, M66, M65, M64, M63, M62, M61, M60, M59, M58, M57, M56, M55, M54, M53, M52, M51, M50, M49, M48, M47, M46, M45, M44, M43, M42, M41, M40, M39, M38, M37, M36, M35, M34, M33, M32, M31, M30, M29, M28, M27, M26, M25, M24, M23, M22, M21, M20, M19, M18, M17, M16, M15, M14, M13, M12, M11, M10, M9, M8, M7, M6, M5, M4, M3, M2, M1.

CD Deck Exploded View



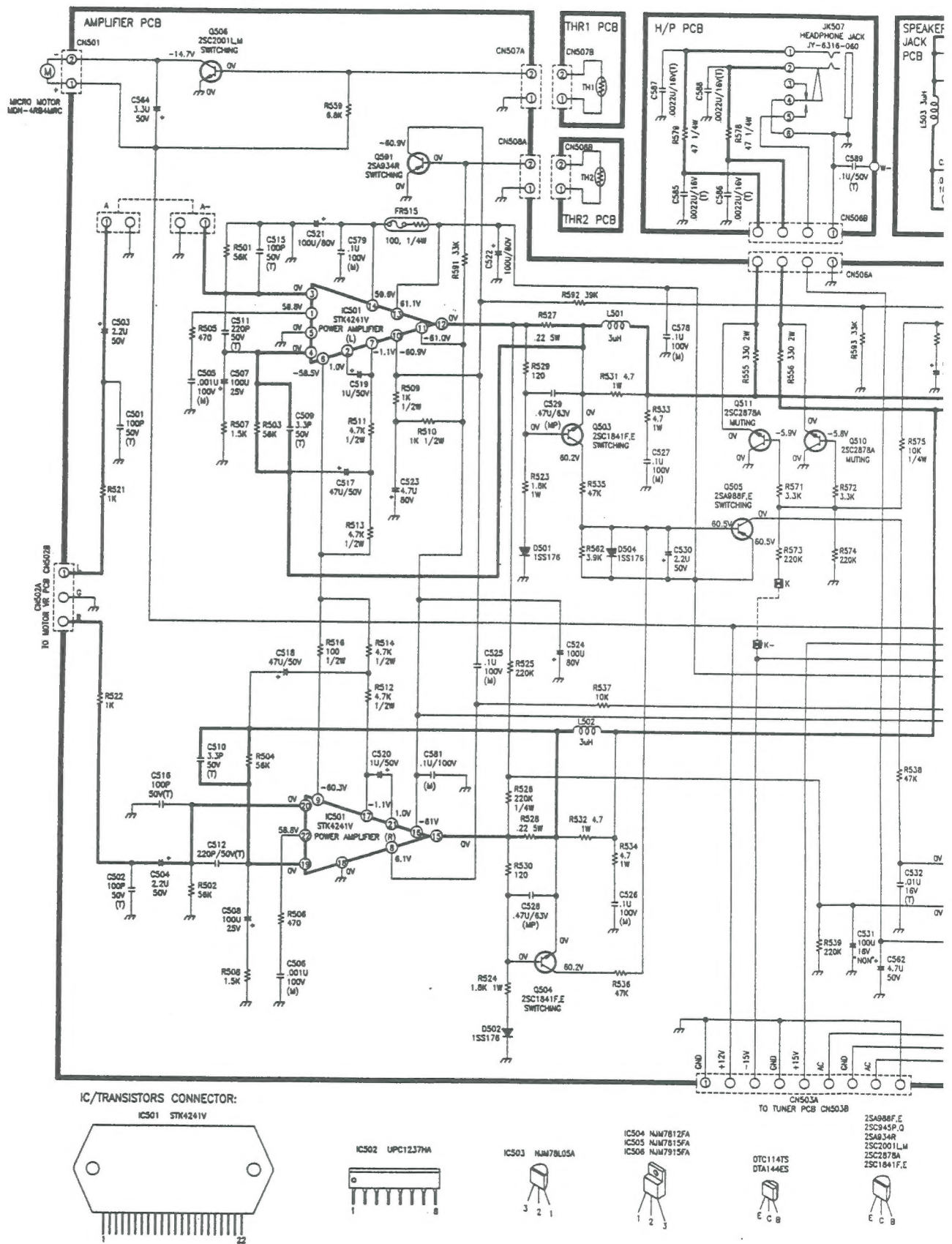
Mechanical Exploded View- Receiver



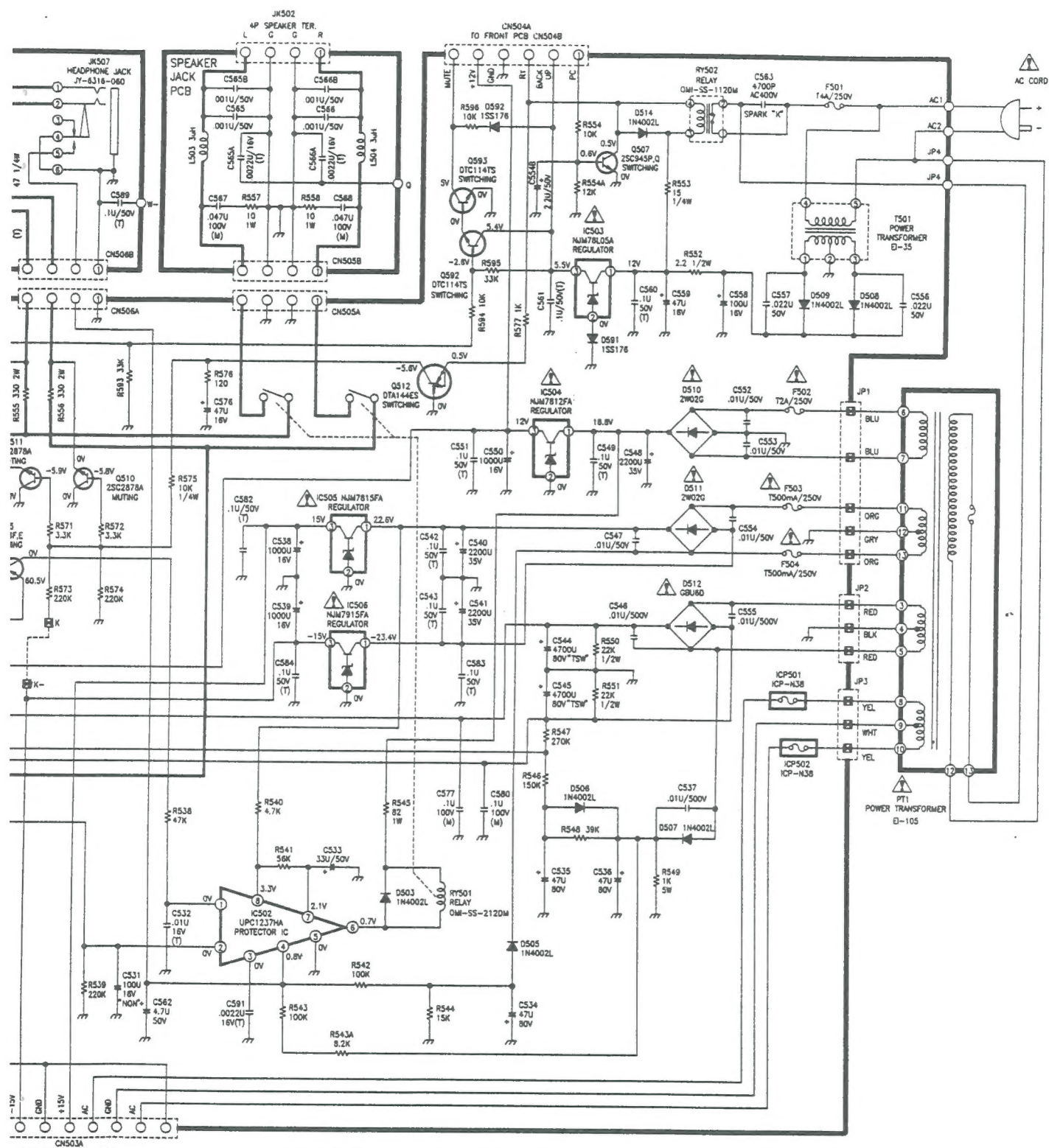
This diagram is an exploded view of a mechanical assembly, likely a piece of industrial equipment. It shows the following components and their assembly relationships:

- Top Panel:** A large rectangular panel at the top, secured by screws M31 and M36. It features a central slot for component M32A.
- Internal Frame/Support:** A complex structure below the top panel, including a central block with internal mechanisms (M35, M37, M18, M11, M1) and side rails (M38, M39, M40, M41, M37).
- Base Plate:** A large rectangular plate at the bottom, secured by screws M11 and M18. It has a central slot for component M32.
- Front Panel/Door:** A large panel at the bottom left, secured by screws M11 and M10. It features a central slot for component M32.
- Internal Components:** Numerous smaller parts are shown in their assembly positions, including screws (M1, M2, M3, M4, M5, M6, M7, M8, M9, M11, M12, M13, M14, M15, M16, M17, M18, M19, M20, M21, M22, M23, M24, M25, M26, M27, M28, M29, M30, M31, M32, M33, M34, M35, M36, M37, M38, M39, M40, M41, M42, M43, M44, M45, M46, M47, M48, M49, M50, M51, M52, M53, M54, M55), pins (M1, M2, M3, M4, M5, M6, M7, M8, M9, M11, M12, M13, M14, M15, M16, M17, M18, M19, M20, M21, M22, M23, M24, M25, M26, M27, M28, M29, M30, M31, M32, M33, M34, M35, M36, M37, M38, M39, M40, M41, M42, M43, M44, M45, M46, M47, M48, M49, M50, M51, M52, M53, M54, M55), and other small parts (M1, M2, M3, M4, M5, M6, M7, M8, M9, M11, M12, M13, M14, M15, M16, M17, M18, M19, M20, M21, M22, M23, M24, M25, M26, M27, M28, M29, M30, M31, M32, M33, M34, M35, M36, M37, M38, M39, M40, M41, M42, M43, M44, M45, M46, M47, M48, M49, M50, M51, M52, M53, M54, M55).

Schematic Diag



Schematic Diagram - Amp.



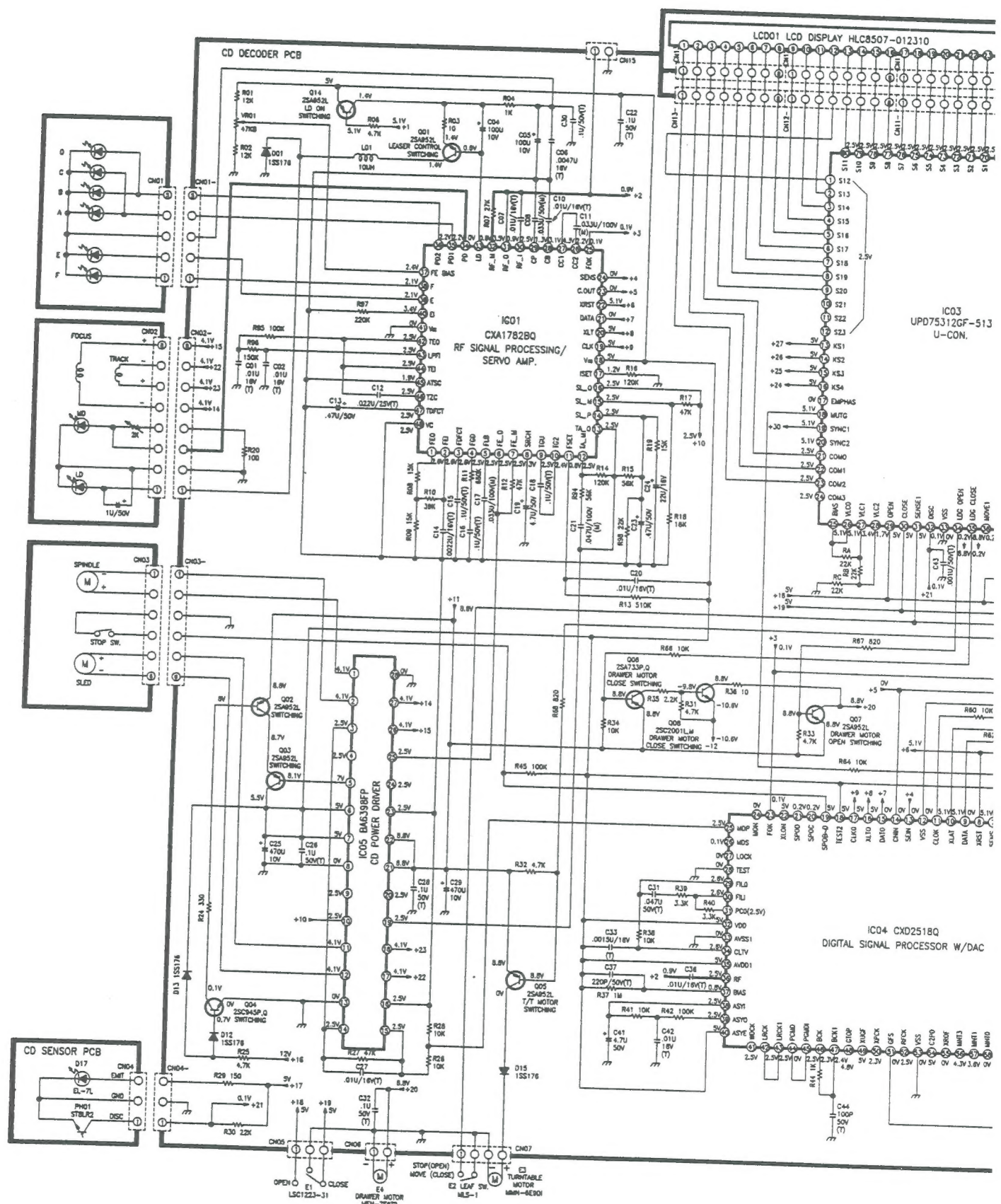
SCHEMATIC NOTES:

1. THE DC VOLTAGES WERE TAKEN WITH NO SIGNAL INPUT.
2. RESISTANCE VALUES ARE IN OHMS (K=1000, M=MEG OHM).
3. UNLESS OTHERWISE NOTED, ALL RESISTORS ARE 1/8 WATT CARBON FILM, $\pm 5\%$ TOLERANCE.
4. ALL VOLTAGES MEASURED FROM GROUND WITH A HIGH IMPEDANCE METER (10 MEG OHMS MIN).
5. (T)=MULTI-LAYER CERAMIC CAPACITOR.
6. REFER TO PARTS LIST FOR VOLTAGE RATINGS OF CAPACITORS.
7. — = COMMON GROUND SYMBOL.
8. — = INDICATES SIGNAL PATH OF CIRCUIT.
9. TO LOCATE CONNECTOR HOOKUPS MATCH THE ALPHA (OR NUMERIC) DESIGNATION TO THE CORRESPONDING ALPHA (OR NUMERIC) DESIGNATION (EXAMPLE: CONNECTOR A C25 CONNECTS TO CONNECTOR A).

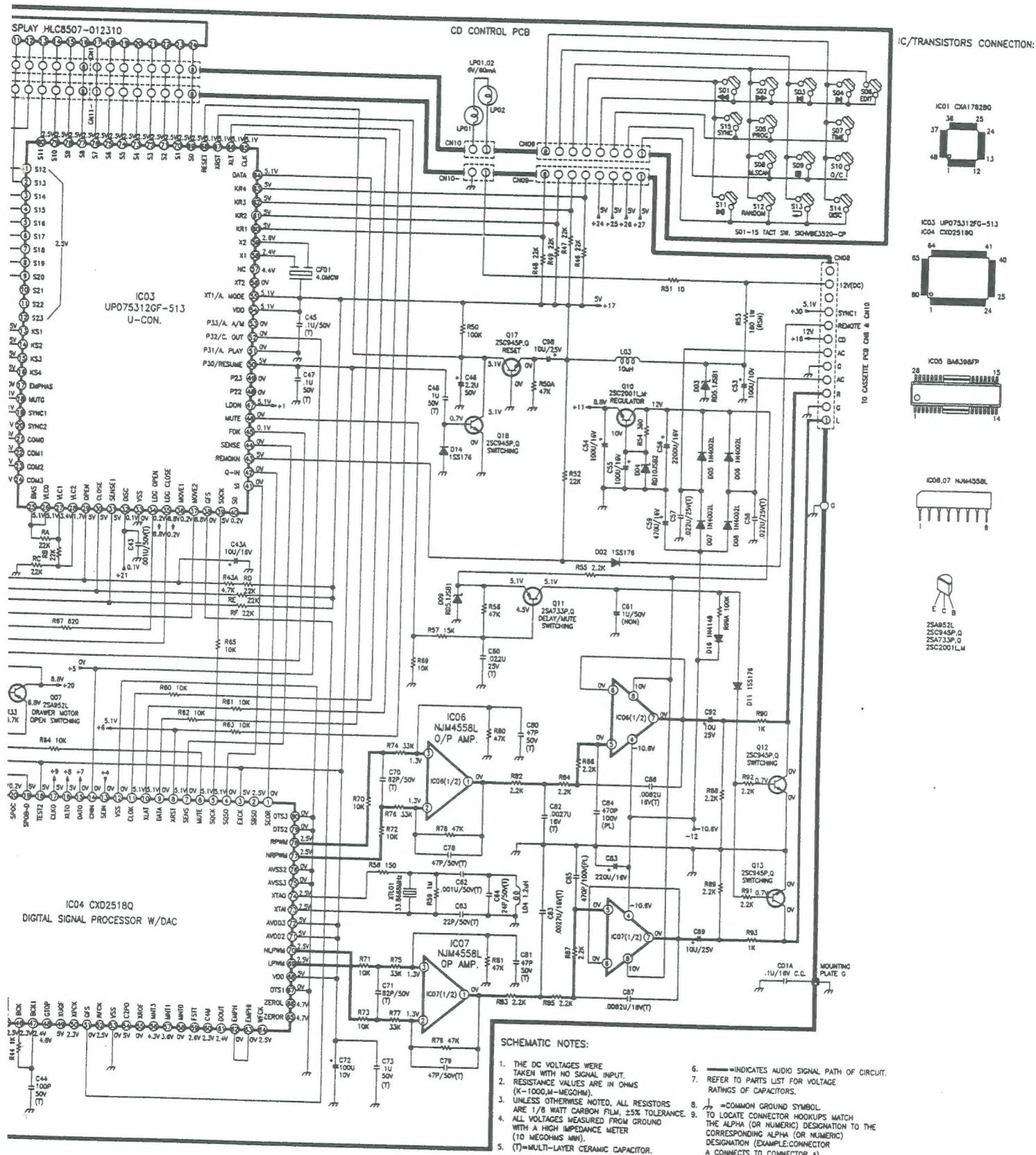
25A088F.E
25C945P.Q
25A934L
25C2001L.M
25C2878A
25C1841F.E

OTC114TS
DTA144ES

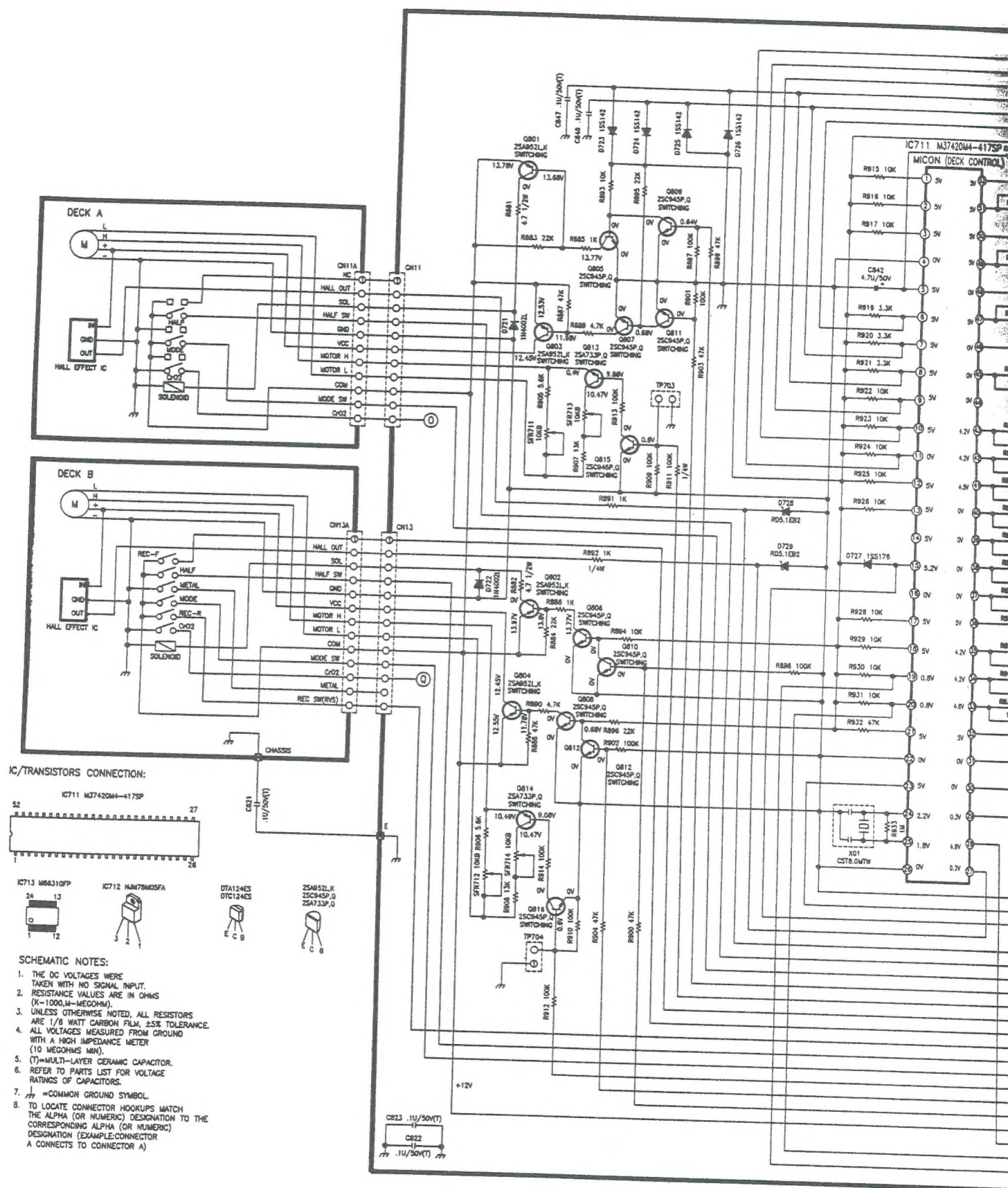




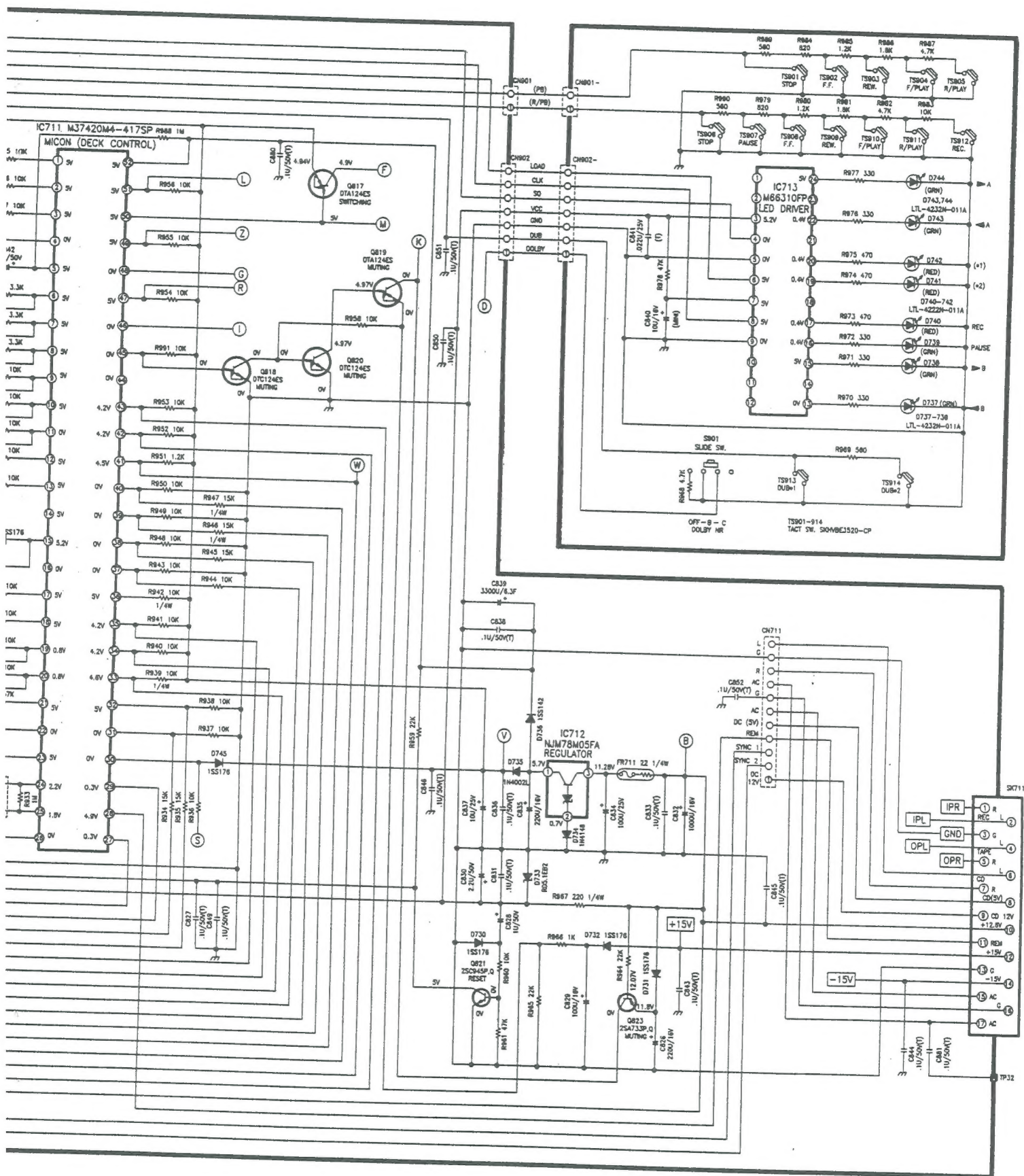
Schematic Diagram – CD



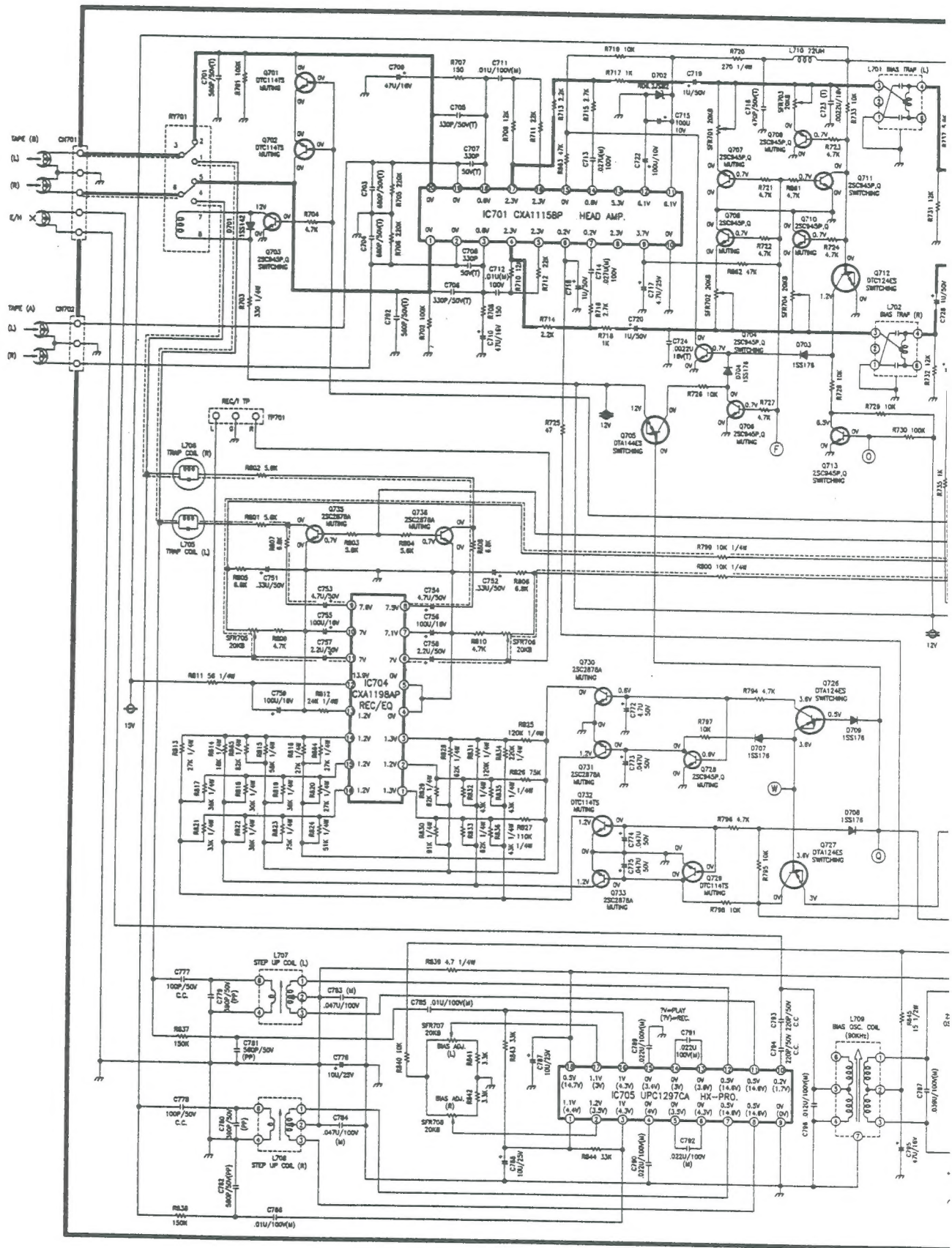
Schematic Diagram



ematic Diagram - Cassette (2/2)



Schematic Diagram - Ca



Schematic Diagram- Front

